

**Figure 1**

US 2004/0103900 A1

PEOPLE

14

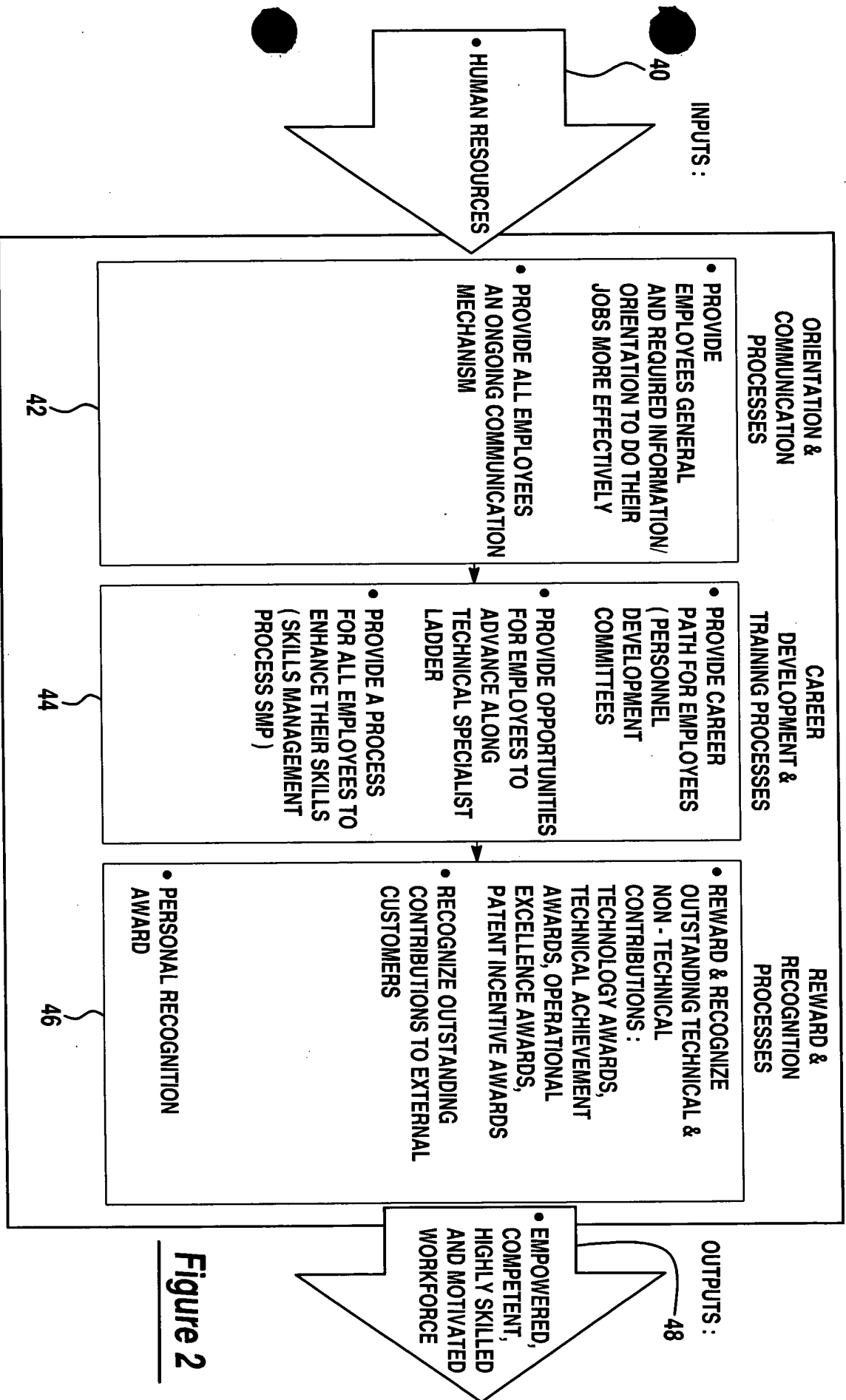


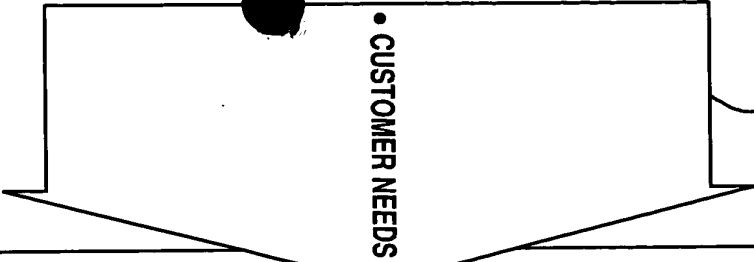
Figure 2

# PROJECTS : CONCEPT PROPOSAL

24

INPUTS :

50



REVIEW  
CUSTOMER  
NEEDS

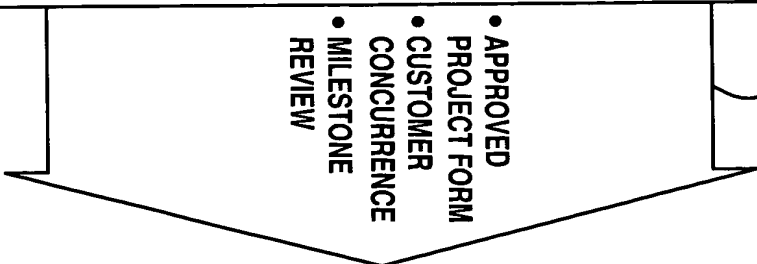
DEVELOP &  
RECEIVE PRELIMINARY  
CONCEPTS

COMPLETE  
PROJECT  
PROPOSAL

REVIEW  
PROJECT & FORUM  
PROPOSALS

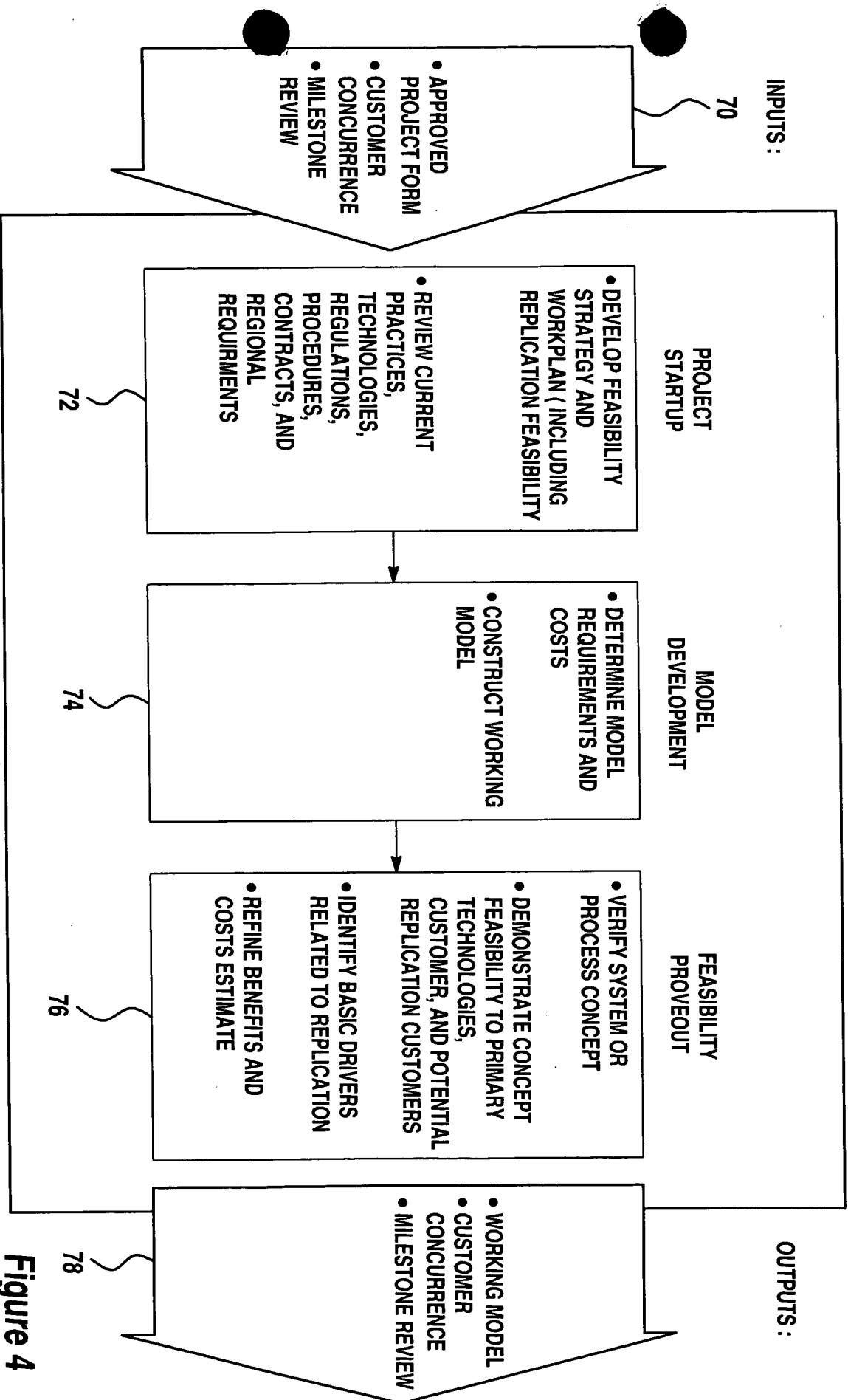
OUTPUTS :

60



**Figure 3**

**PROJECTS : CONCEPT FEASIBILITY**



**Figure 4**

# PROJECTS : MANUFACTURING CONCEPT READY

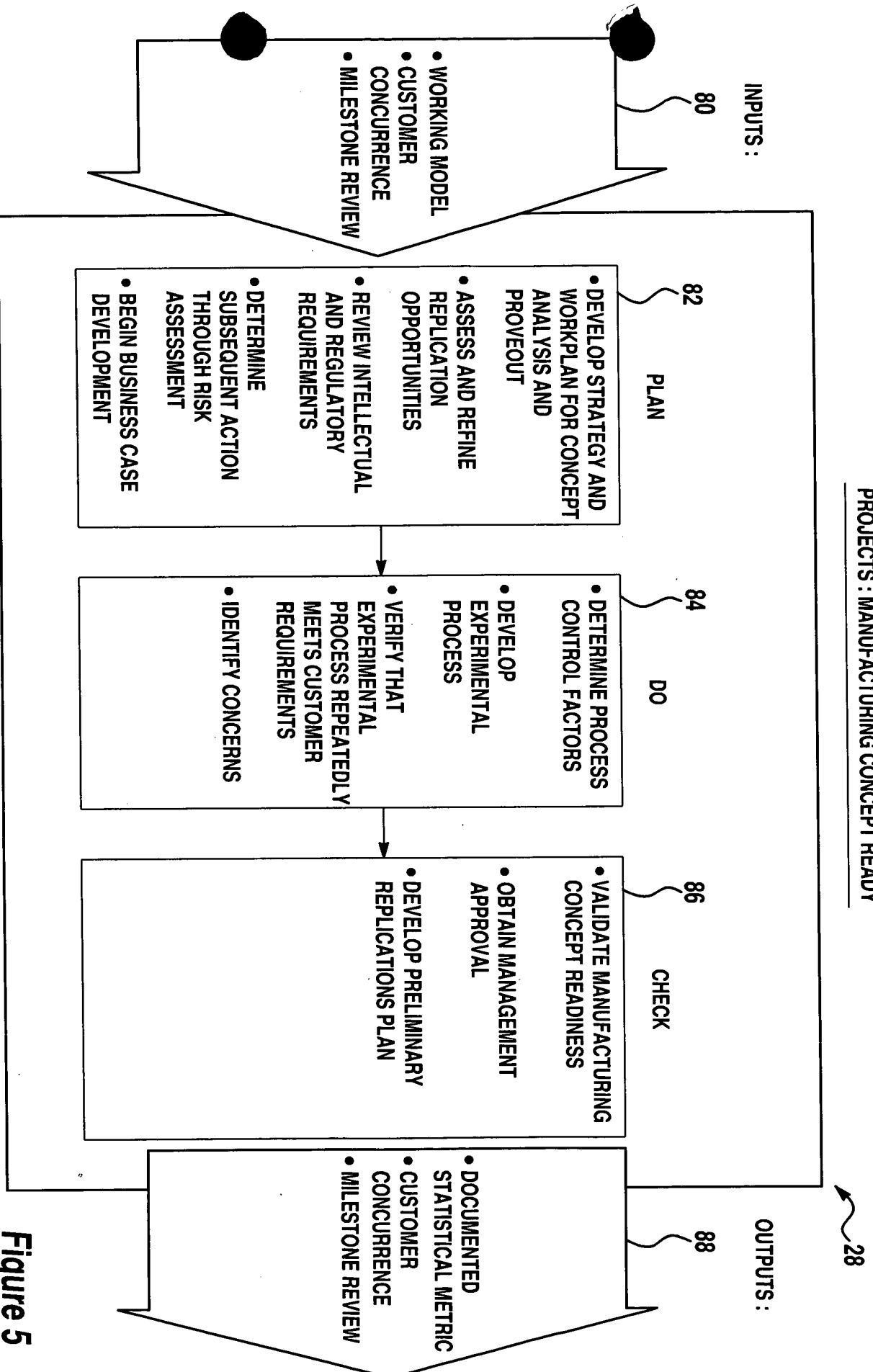


Figure 5

# PROJECTS : MANUFACTURING IMPLEMENTATION READY

30

## INPUTS :

90

- DOCUMENTED STATISTICAL METRIC
- CUSTOMER CONCURRENCE
- MILESTONE REVIEW

## IMPLEMENTATION PLANNING

- CONFIRM STAKEHOLDERS AND IMPLEMENTATION TEAM MEMBERS
- OBTAIN LOCAL PLANT/ENGR. STANDARDS
- COMPLETE PRODUCTION HARDWARE DESIGN
- DEFINE MILESTONE
- DEVELOP INSTALLATION/ LAUNCH WORKPLAN
- REFINE AND DOCUMENT BUSINESS CASE

## PLANT FLOOR IMPLEMENTATION

- CONDUCT PROCESS PROVEOUT
- TECHNOLOGY SIGN - OFF
- HEALTH & SAFETY SIGN OFF ON NEW EQUIPMENT

## ANALYZE IMPLEMENTATION (ASSESSMENT)

- DOCUMENT PROCESS IMPROVEMENTS ( COSTS, TIMING, OBJECTIVE CONFORMANCE
- DOCUMENT THINGS GONE RIGHT/WRONG ( ISSUES DECK )
- ESTABLISH LONG TERM PERFORMANCE SUCH AS CPK, MTBF/MTTR

## OUTPUTS :

104

- DOCUMENTED PILOT OR PLANT TRIAL
- DOCUMENTED STATISTICAL PERFORMANCE
- DOCUMENTED BUSINESS CASE
- REPLICATION PLAN
- CUSTOMER CONCURRENCE
- MILESTONE REVIEW

92

- ESTABLISH REPLICATION TEAM
- DEVELOP A NON SITE SPECIFIC WORKPLAN

94

## REPLICATION PLAN DEVELOPMENT

- DEVELOP DIRECTIONAL ESTIMATE OF RESOURCES REQUIRED FOR REPLICATION

96

- AGREE ON ROLES AND RESPONSIBILITIES BETWEEN OPERATIONS AND AMTD INCLUDING PROJECT CLOSURE REQUIREMENTS

98

100

102

Figure 6

# PROJECTS : REPLICATION

32

## INPUTS :

110

- DOCUMENTED PILOT OR PLANT TRIAL
- DOCUMENTED STATISTICAL PERFORMANCE
- DOCUMENTED BUSINESS CASE
- REPLICATION PLAN
- CUSTOMER CONCURRENCE
- MILESTONE REVIEW

112

## CONFIRM REPLICATION PLAN

- CONFIRM BUSINESS CASE, CONDITIONS & ECONOMIC CONSTRAINTS
- CONFIRM ROLES & RESPONSIBILITIES IN REPLICATION
- IDENTIFY HUMAN RESOURCES
- PRIORITIZE SPECIFIC REPLICATION APPLICATION OPPORTUNITIES
- CONFIRM REPLICATION PLAN WITH AFFECTED CUSTOMER MANAGEMENT

114

## EXECUTE PLAN

- DEVELOP PROJECT APPROPRIATIONS REQUEST FOR IMPLEMENTATION OF TECHNOLOGIES
- DESIGN, BUILD, & INSTALL PROVEN TECHNOLOGY
- EXECUTE TRAINING PLAN
- PROVIDE TECH. RESOURCE AND ASSISTANCE AS REQUIRED
- CLOSE PROJECT

116

## REWARDS & RECOGNITION

- REWARD & RECOGNIZE OUTSTANDING TECHNICAL AND NON - TECHNICAL CONTRIBUTIONS BY TEAM MEMBERS

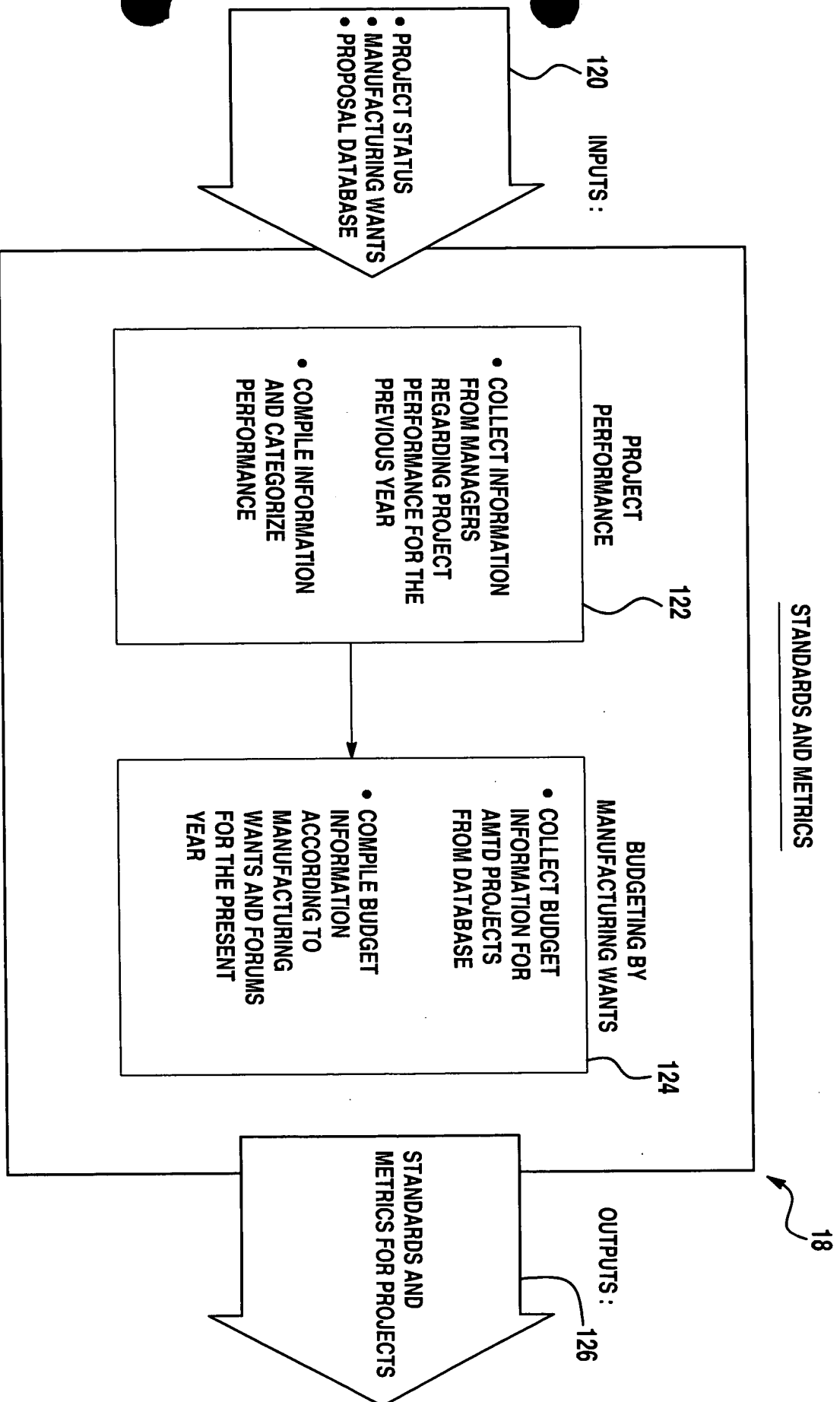
## OUTPUTS :

118

- PRIORITIZE SCHEDULE OF LAUNCH LOCATIONS
- MULTIPLE IMPLEMENTATION OF PROVEN TECHNOLOGIES
- PROJECT CLOSURE
- MILESTONE REVIEW
- ACCEPTED BY CUSTOMER, E.G. "BEST PRACTICE"

**Figure 7**

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**Figure 8**

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# MANUFACTURING TECHNOLOGY COUNCIL & FORUMS

20

INPUTS :

130

- CUSTOMER NEEDS/WANTS
- LEADING TECHNOLOGIES
- BENCHMARKING DATA

REVIEW CUSTOMER NEEDS

- ESTABLISH CORPORATE WANTS ALIGNED WITH REGULATIONS/ REQUIREMENTS
- ASSESS LEADING AND BEST-IN-CLASS TECHNOLOGIES

TECHNOLOGY STRATEGY

- PERFORM COMPETITIVE ASSESSMENT
- PRIORITIZE WANTS/NEEDS BASED ON CORPORATE MANUFACTURING TECHNOLOGY STRATEGY
- DEVELOP TIMING MIGRATION OF TECHNOLOGIES IN SUPPORT OF THE TECHNOLOGY STRATEGY
- ESTABLISH FOCUSED LEADERSHIP POSITIONS FOR CORE MFG. TECHNOLOGIES

PROJECT PORTFOLIO

- PRIORITIZE PROPOSED PROJECTS BASED ON THE IDENTIFIED WANTS/NEEDS AND TECHNOLOGY STRATEGY

PROJECT SPONSORSHIP

- IDENTIFY ENABLING FUND CANDIDATE PROJECTS
- SUPPORT PROJECTS TO ACHIEVE IMPLEMENTATION READY STATUS
- PROMOTE PROJECT REPLICATION

OUTPUTS :

140

- FINALIZED FORUM STRATEGY
- FORUM SPONSORSHIP OF PROJECTS
- MANAGEMENT OF PROJECT PORTFOLIO
- MANAGEMENT OF ENABLING FUNDS

Figure 9

132

134

136

138

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